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TAB C - HIGHWAY BRIDGES

<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 1A 172725N 1063745E		Dong Hoi Hwy Bridge over Rao Le Ky	3-4 Apr 65	Initial strikes. 9 spans destroyed or damaged. Bridge unserviceable.
	25X1	400 x 13 ft.; 11-span, half-thru steel truss on concrete piers	9 Apr 65	4 destroyed spans cleared for river navigation; construction started on ferry landings adjacent to target bridge.
25X1			14-19 Apr 65	Ferry landings still under construction.
			23 Apr 65	Ferry landings near completion; north ramp 105 x 18 ft, south ramp 200 x 18 ft.
			26 Apr 65	No repairs accomplished on target bridge. Cratering on approach roads repaired. Ferry landings still under construction; progress slowed up.
			21 May 65	Work on ferry landings suspended. Temporary timber foot bridge under construction over destroyed spans on target bridge. Approaches in poor condition.

DIA review(s) completed.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
			3 Jun 65	Bridge serviceable. Temporary repairs appear complete; open for foot and cart traffic - 2 months outage.
			3-17 Jun 65	Bridge open to light traffic. Ferry noted in area, 17 June.
			19 Jun 65	Bridge unserviceable. 2 spans out - probably washed out.
			26 Jun 65	Bridge serviceable. Temporary spans and approaches repaired - open for light traffic.
			5 Jul 65	Bridge unserviceable. 2 spans collapsed or removed.
			25 Jul 65	Restrike. Bridge unserviceable. 3 mid-stream spans destroyed. South end span severed from abutment. South ferry landing ramp cratered.
			25 Jul - 13 Aug 65	Bridge remains unserviceable. No repairs evident. No ferry operation indicated.
			23 Aug 65	Restrike. 2 remaining spans demolished. Bridge unserviceable. 1 span further damaged. Both approaches heavily cratered.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
			2 Oct 65	No repairs evident. No bypass activity vicinity of the bridge.
			7 Oct 65	<u>Restrike</u> . No further damage reported.
			7 Oct - 24 Dec 65	Bridge remains unserviceable. No restoration.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 1A		Ha Tinh Hwy Bridge over Song Nai	24 Apr 65	<u>Initial strike.</u> Bridge still standing; approaches cratered.
181907N 1055504E			10 May 65	<u>Restrike.</u> North span dropped, north abutment destroyed. Center span damaged. Ferry approaches severely damaged. Bridge unserviceable.
	25X1	220 x 15 ft.; 3-span, half-thru steel truss	14 May 65	Ferry facility serviceable; ferry noted.
25X1			3 Jun 65	Bridge unserviceable.
			8-14 Jun 65	No change. Ford serviceable.
			4 Jul 65	Bridge decking removed; ferry in use.
			18-24 Jul 65	No change.
			12-27 Aug 65	No change.
			1 Sep 65	No Change.
			4 Sep 65	<u>Restrike.</u> Center span dropped, approaches cratered. No repairs noted.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
			13-27 Sep 65	No change. Ferry landings serviceable.
			1 Oct 65	No change.
			2 Oct 65	Serviceable foot bridge observed upstream.
			10-26 Oct 65	Bridge unserviceable. Ferry serviceable.
			1-3 Nov 65	No change.
			7 Nov 65	Approaches cratered. Bypass under construction.
			9 Nov 65	Bridge unserviceable. Ferry landings serviceable.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 6		Ban Pa Huone Hwy Bridge over Nam Meuk	23 Jul 65	<u>Initial strike.</u> Severe damage to one span; moderate damage to 2 others. Bridge usable for foot traffic only.
214810N 1031828E		210 x 10 ft; 4-span, half-thru steel truss	29 Jul 65	<u>Restrike.</u> Three spans dropped; remaining (northern) span moderately damaged. Northern approach heavily cratered. At time of strike, ferry or ford approach ramps were being prepared.
	25X1		24 Aug 65	Bridge still unserviceable.
			28 Aug 65	Ferry approach ramps completed. No bridge reconstruction noted; unserviceable.
			17 Oct 65	Ferry next to bridge site noted. Bridge unserviceable.
			19 Oct 65	No change from 17th.
			28 Oct 65	Bridge still out; ponton bridge site approx. 200 yards NE of target.
			2-4 Dec 65	Bridge unserviceable; ponton sections under construction just north of ponton bridge site. Ferry observed north of ramps.
			22 Dec 65	No change since 4 Dec. Bridge unserviceable.

25X1

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 7 191621N 1042117E		Khe Kien Hwy Bridge West over Nam Kien	9 Apr 65	Initial strike. Three-span structure completely destroyed; approaches damaged.
	25X1	340 x 18 ft.; 3-span, deck-type modern reinforced con- crete haunched T-beam on con- crete piers.	6 May 65	Former bridge replaced by earth embankment (causeway) with small (20 ft.) bridge; serviceable.
25X1			8 Jun 65	Piles of lumber near bridge site, suggesting reconstruction activity.
			27 Sep 65	Ford just north of former bridge site.
			7 Nov 65	Small bridge destroyed. Two bypass routes with fords constructed.
			3 Dec 65	One ford destroyed, another bypass constructed.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 7 185751N 1053420E		Phuc Thiem Hwy Bridge over stream	23 Apr 65	<u>Initial strike.</u> Bridge demolished along with east abutment. Extensive cratering on both approaches.
	25X1	100 x 15 ft.; 1-span, concrete or masonry arch.	15 May 65	Bridge unserviceable. No reconstruction at bridge site. Road approaches under repair. Probable ferry landing under construction near target. New foot bridge installed north of bridge.
25X1			15 May 65- 16 Jun 65	Bridge remains unserviceable. No new construction noted. Probable ferry operating nearby.
			7 Jul 65	New bridge under construction at original bridge site. Four piers installed.
			17 Jul 65	<u>Restrike.</u> Crossing remains unserviceable. Eastern approach heavily cratered. Moderate damage to replacement bridge which now has deck stringers partially installed.
			18 Jul 65	Nearby foot bridge also unserviceable.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
			5 Aug - 31 Aug 65	Crossing remains unserviceable. Construction on replacement bridge apparently halted.
			18 Sep 65	Construction on replacement bridge nearly completed and possibly serviceable - 5 month recovery effort.
			27 Sep 65	<u>Restrike.</u> New bridge unserviceable. Bridge superstructure heavily damaged; adjacent foot bridge demolished.
			28 Sep - 27 Oct 65	Bridge remains unserviceable. Clearing for ferry landings nearby.
			6 Nov 65	Ferry craft detected vicinity of bridge.
			16 Nov - 13 Dec 65	Bridge remains unserviceable. No reconstruction attempted. Ferry crossing probably serviceable 100 yards south of target bridge.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 8		Kim Cuong Hwy	10 Apr 65	Initial strike. Center span destroyed, end spans severely damaged; approaches cratered. Bridge unserviceable.
182600N 1051325E		Bridge S.W. over Nam Chot		
	25X1	165 x 15 ft.; 4-span, concrete beam with concrete deck on concrete piers	10 May 65	Bridge unserviceable; ford serviceable.
			28 May 65	Bridge unserviceable but under repair.
25X1			14-26 Jun 65	No change. Ford serviceable.
			2 Jul 65	40% of northeast end has been repaired. Both approaches restored.
			18-22 Jul 65	No change. Ford serviceable.
			9-30 Aug 65	No change. Ford serviceable.
			1-4 Sep 65	No change. Ford serviceable.
			19 Sep 65	No change. Ferry appears serviceable.
			23 Sep 65	No change.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
			28-30 Oct 65	No change.
			3 Nov 65	<u>Restrike.</u> North approach heavily cratered. Bridge unserviceable; ford serviceable.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 15 180405N 1054930E		Bai Duc Thon Hwy Bridge over Ngan Sau	16 Apr 65	<u>Initial strike.</u> Bridge unserviceable. 3 spans effectively destroyed or weakened. Center span destroyed; north span sagging; other span extensively damaged. Roadway at north approach cratered.
	25X1	320 x 16 ft.; 5-span, concrete deck type	24-25 Apr 65	<u>By-pass in service.</u> Original ford crossing reinstalled with rock lining. Destroyed spans partially repaired on target bridge.
			25-26-27 Apr 65	<u>Restrike.</u> Bridge unserviceable. Further light damage to bridge. Ford bypass not affected.
			27 Apr - 13 May 65	Ford bypass remains serviceable. No bridge repairs.
			3 Jun 65	Ford probably being strengthened with additional rock base.
			3 Jun - 23 Sep 65	Bridge remains unserviceable. Ford in use. Only minor repairs noted.
			4 Oct 65	Alternate bridge construction site detected, 1,000 yards north of target bridge. Stone fill approach at north end near completion.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 15 175730N 1054855E		Xom Ca Trang Hwy Bridge over Rao Cai	16 Apr 65	Initial strike. One of two channel spans dropped, little pier damage; remaining spans in good condition.
	25X1	340 x 10 ft.; 4-span, steel half-thru truss on concrete piers	8 May 65	No change in bridge status. Ford bypass serviceable.
25X1			3 Jun 65	Restrike. Heavy damage to planking.
			15 Jun 65	No change; bridge unserviceable.
			17 Jun 65	Restrike. Bridge unserviceable; road cratered.
			22-27 Jul 65	Bridge unserviceable; ford serviceable.
			23 Aug 65	No change.
			7 Sep 65	Restrike. Northwest span damaged; ford cratered.
			23-27 Sep 65	No change.
			27 Oct - 8 Nov 65	No change; ford serviceable.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
			10 Oct 65	<u>Restrike.</u> No significant damage. Alternate bridge crossing still under construction. Estimated 4-span, concrete deck-type design. Bypass ford still in good condition.
			18 Oct - 2 Nov 65	Bypass ford submerged. New ford appears installed west of target bridge.
			27 Oct - 17 Nov 65	Target bridge still unserviceable. Temporary repairs deteriorated. Alternate bridge crossing still under construction.
			29 Nov 65	<u>Restrike.</u> North approach cratered. Alternate bridge still under construction.
			13-16 Dec 65	Alternate bridge still under construction. Bypass ford serviceable.
			23 Dec 65	<u>Restrike.</u> Further damage to south end of original target bridge. No reported damage to alternate bridge.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 18 210724N 107 2105E		Ha Chanh Hwy Bridge over stream.	28 Nov 65	Initial strike. 115 ft center span dropped; south approach cratered. Ford or ferry bypass west of bridge cratered; was under construction prior to strike.
	25X1	185 x 12 ft.; 3-span, concrete deck-type		
25X1				

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Route 19		Ban Pom Lot Hwy	3 Jul 65	Unsuccessful - bad weather.
211641N 1030030E		Bridge S. over Khe Cam Ly	23 Jul 65	<u>Initial strike.</u> Both bridge approaches cratered; possible damage to bridge; unserviceable.
	25X1	260 x 12 ft; 3-span, half-thru steel truss; newly constructed.	24 Jul 65	Partially destroyed south deck. Bridge unserviceable.
25X1			28 Jul 65	Bridge unserviceable; no repairs.
			29 Jul 65	<u>Restrike.</u> One span dropped. Bridge unserviceable.
			31 Jul 65	North span severely damaged at abutment. Bridge unserviceable; no repairs attempted.
			2 Aug 65	<u>Restrike.</u> North span, previously damaged, now destroyed. South span and abutment damaged. Seasonal ford at site.
			5 Aug 65	Approaches cratered. Bridge still unserviceable; no repairs noted.
			12 Aug 65	No change since 5 Aug.
			17 Aug 65	Bridge unserviceable; ford serviceable.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
			22-25 Sep 65	No Change.
			3-17 Oct 65	No Change.
			19 Oct 65	Ford damaged.
			23 Nov 65	Bridge unserviceable; ford serviceable.
			22 Dec 65	No change; bridge unserviceable.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 82		San Dinh Hwy	23 Apr 65	<u>Initial strike.</u> Bridge totally demolished. Possible fording site nearby.
182403N 1054341E		Bridge over Song Kiem	7 May 65	Crossing unserviceable except for probable ford. New bridge under construction and realigned approaches; estimated 50% complete.
	25X1	140 x 11 ft.; 2-span, concrete deck type.	5 Jun 65	New bridge/causeway serviceable for traffic. Approximately 1 month recovery time.
25X1			26 Jun - 2 Nov 65	Bridge/causeway remains serviceable to light traffic.
			2-9 Nov 65	<u>Possible restrike.</u> Bridge/causeway bypass damaged.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 101 171355N 1064215E		My Duc Hwy Bridge over Khe Cam Ly	20 Apr 65	<u>Initial strike.</u> Bridge serviceable. Minor damage; approaches cratered.
	25X1	190 x 29 ft.; 3-span, concrete deck-type	22 Apr 65	<u>Restrike.</u> Bridge unserviceable. 1 span demolished, 1 span dropped; north pier destroyed. South span received superficial damage. South approach severely cratered.
25X1			9 May 65	Bridge remains unserviceable. No repairs noted.
			23 Sep 65	Nearby ford crossing probably in use.
			19 Nov 65	Foot bridge constructed, 500 ft. west of target bridge.

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<u>Location</u>	<u>Target Number</u>	<u>Name</u>	<u>Date</u>	<u>Status</u>
Route 110 174533N 1062311E		Loc Dien Hwy Bridge over stream	16 Sep 65	<u>Initial strike.</u> One span destroyed, one span severely damaged. Bridge unserviceable.
		60 x 12 ft.; 3-span, timber deck type	29 Sep 65	Damaged span repaired; repairs in progress on destroyed center span. Bridge unserviceable.
	25X1		10 Oct 65	Repairs still in progress on destroyed center span. Bridge remains unserviceable.
25X1			24 Oct 65	<u>Restrike.</u> Bridge destroyed.